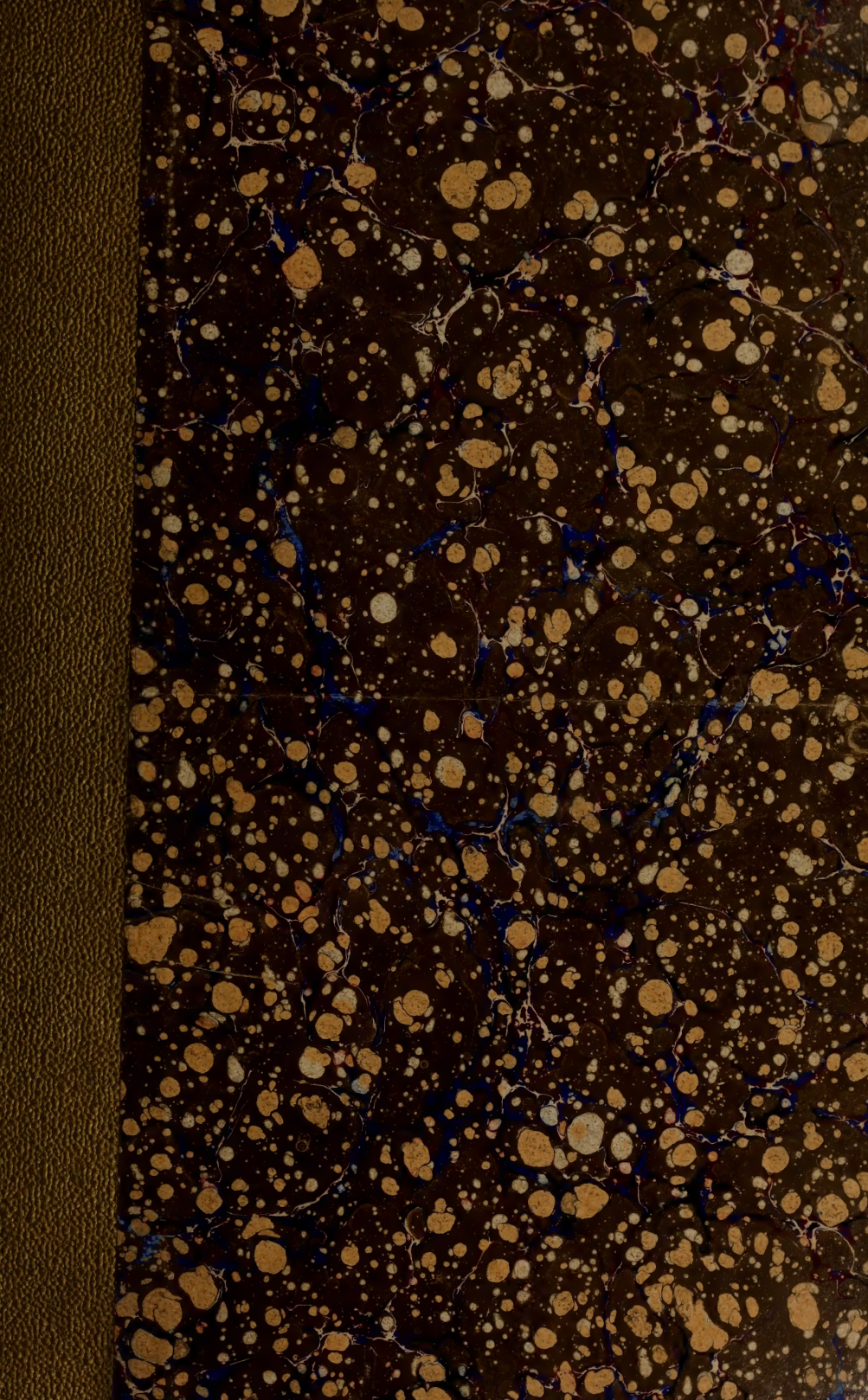




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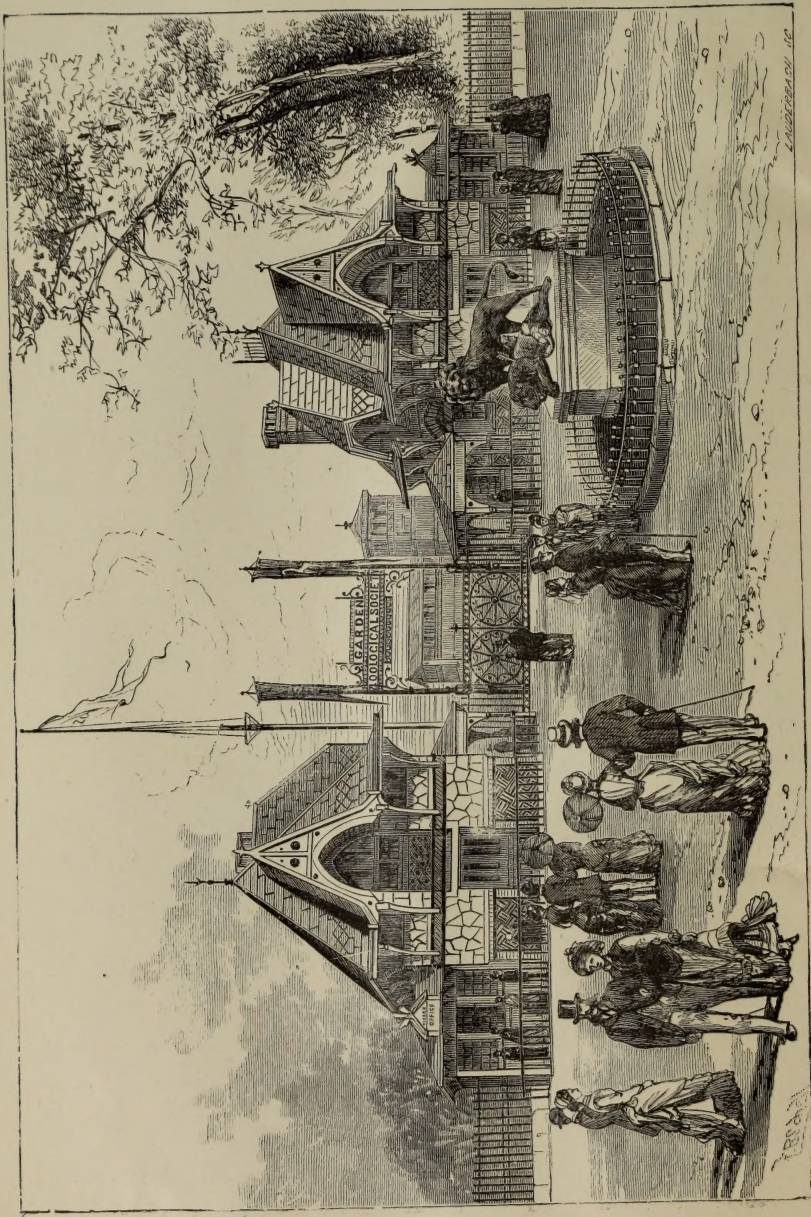
Library of the Museum
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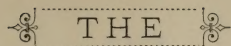
the { Zoological
Society of
Philadelphia

No. 6110

May 13, 1881 - June 12, 1889



GIRARD AVENUE ENTRANCE.



Eleventh Annual Report

OF THE

BOARD OF DIRECTORS

OF THE

ZOOLOGICAL SOCIETY

OF PHILADELPHIA.

(Incorporated March 21st, 1859.)

READ AT THE ANNUAL MEETING OF THE MEMBERS AND LOAN-
HOLDERS OF THE SOCIETY.

APRIL 26TH, 1883.

PHILADELPHIA.

1883.

Printed by
ALLEN, LANE & SCOTT,
Philadelphia.

THE
Zoological Society of Philadelphia

OFFICE, FAIRMOUNT PARK.

OFFICERS FOR THE YEAR ENDING APRIL 24th, 1884.

President,
FREDERICK GRAFF.

Vice-Presidents :
GEORGE W. CHILDS, | HENRY LEWIS.

Corresponding Secretary,
JOHN L. LECONTE, M. D.

Recording Secretary,
JOHN SAMUEL.

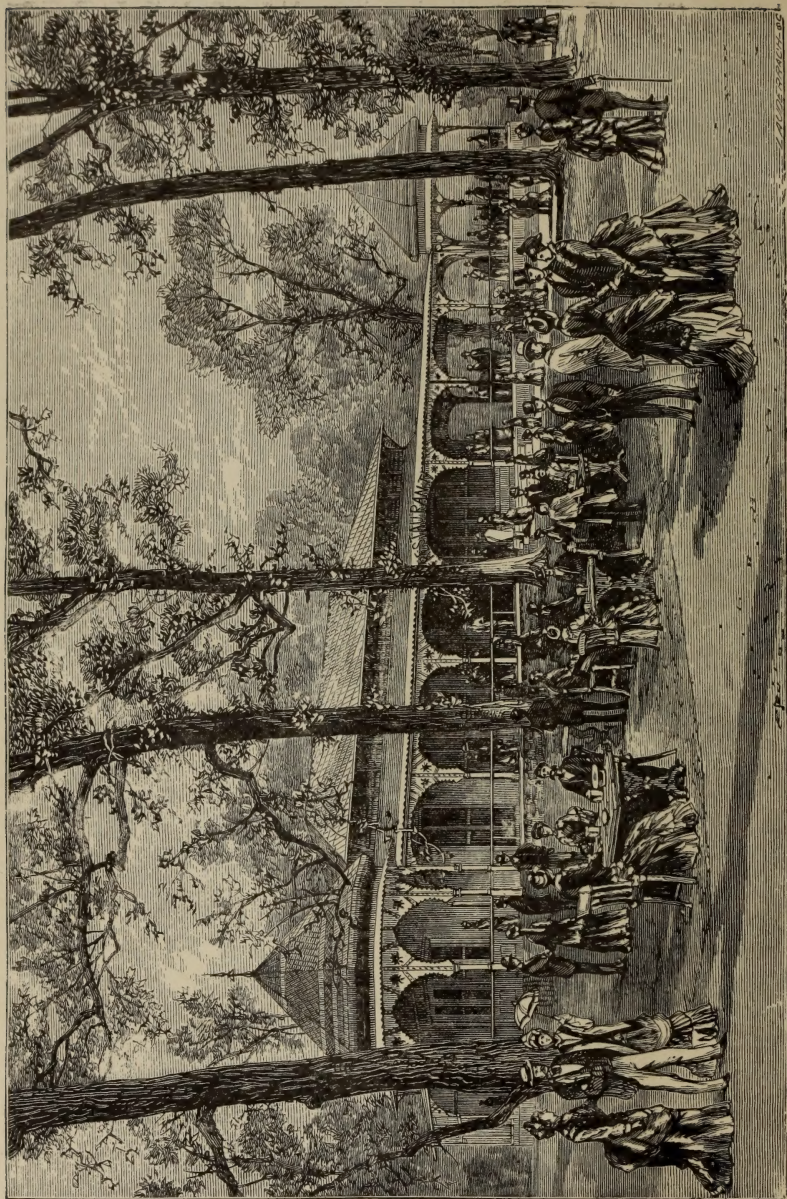
Treasurer,
WILLIAM HACKER.

Directors :
J. VAUGHAN MERRICK, CHARLES W. TROTTER,
JOHN WAGNER, PROF. JOSEPH LEIDY,
WILLIAM H. MERRICK, FRANCIS T. FASSITT,
S. FISHER CORLIES, PROF. H. C. CHAPMAN,
HENRY GIBSON, CLARENCE H. CLARK,
ISAAC J. WISTAR, JOSEPH E. TEMPLE.

Actuary,
CHARLES L. JEFFERSON.

Superintendent of the Garden,
ARTHUR E. BROWN.

Solicitors :
SAMUEL WAGNER, | WM. W. MONTGOMERY.



REPORT

OF THE

BOARD OF DIRECTORS.

PHILADELPHIA, April 26th, 1883.

THE Board of Directors of the Zoological Society of Philadelphia submit to the members and loan-certificate holders this, their Eleventh Annual Report of the business and operations of the Society from 1st of March, 1882, to 1st of March, 1883.

MEMBERS.

The number of members on the 1st of March, 1883, was—

Annual members, ...	577
Life members, ...	183
Corresponding members, ...	8
Honorary members, ...	15

Total members (exclusive of loan-holders), . . . 783

Decrease, by death or resignation, from preceding year, of twenty-seven annual and five life members.

The total number of loan-holders is 477.

VISITORS.

The past year shows an increase of 9439 in the number of visitors. The issuing of round-trip tickets in conjunction with the Pennsylvania Railroad has proved measurably successful. The number of visitors by this route will doubtless be increased as the people become more acquainted with it, and its branches to Chestnut Hill and Germantown are established. During the past season 12,146 adults, and 1906 children's tickets were sold by the Pennsylvania Railroad for our account.

In accordance with the views expressed by some of our members at the last annual meeting, the Board again tried the experiment of having music at the Garden during the

summer months. It being found, however, that, as heretofore, the additional expense was not covered by an increased attendance, the music was discontinued. The months of June and July, when the music was present, show a decrease as compared with the same months last year without music.

The following is a report, in detail, of the gate receipts for the year:—

Adults (paying twenty-five cents at gates), ...	151,297
Children (paying ten cents at gates), ...	41,668
Members (including Life and Annual Members, loan-holders' annual, and complimentary annual tickets), ...	2,760
Loan-holders' single tickets, ...	27,768
Free admissions (charitable institutions, donors' tickets, &c.), ...	2,018
Package tickets, ...	359
Excursion tickets, ...	26,996
	<u>252,866</u>

Monthly Record of Visitors for 1882-83, with corresponding account for 1881-82.

MONTH.	1881-82.	1882-83.	COMPARISON.
March, ...	6,253	9,272	Increase, . . 3,019
April, ...	13,601	16,022	" . . 2,421
May, ...	24,662	19,483	Decrease, . . 5,179
June, ...	24,150	25,056	Increase, . . 906
July, ...	38,371	35,385	Decrease, . . 2,986
August, ...	43,667	34,906	" . . 8,761
September, . .	33,490	40,572	Increase, . . 7,082
October, ...	24,046	42,116	" . . 18,070
November, . . .	13,615	10,589	Decrease, . . 3,026
December, . . .	10,254	10,432	Increase, . . 178
January, ...	5,980	4,518	Decrease, . . 1,462
February, ...	5,338	4,515	" . . 823
	<u>243,427</u>	<u>252,866</u>	Increase, . . 9,439

Average daily admission, ... 693
The greatest number of visitors on any one day was
on Thursday, October 26th, ... 7,268

*Monthly Record of Receipts from Admissions for 1882-83,
with corresponding account for 1881-82.*

MONTH.	1881-82.	1882-83.	COMPARISON.
March, . . .	\$1,200 90	\$1,730 95	Increase, . \$530 05
April, . . .	2,513 75	2,962 80	" . 449 05
May, . . .	4,343 85	3,481 73	Decrease, . 862 12
June, . . .	4,306 61	4,423 12	Increase, . 116 51
July, . . .	6,800 50	6,157 35	Decrease, . 643 15
August, . .	7,681 57	6,169 43	" . 1,512 14
September,	6,790 68	7,330 27	Increase, . 539 59
October, . .	4,916 83	8,842 36	" . 3,925 53
November, .	2,690 22	2,049 42	Decrease, . 640 80
December, .	1,998 95	1,959 20	" . 39 75
January, . .	1,119 75	810 51	" . 309 24
February, .	1,028 70	841 18	" . 187 52
	\$45,392 31	\$46,758 32	Increase, . \$1,366 01

Average daily receipts from admissions, ... \$128 10

The largest amount of receipts at the gates on any

one day was on Thursday, October 26th, . . . \$1,690 53

Total Receipts on the several days of the week, and their respective averages, for 1882-83.

RANK.	DAYS.	TOTAL RECEIPTS.	AVERAGE.
1	Sunday, ...	\$18,048 69	\$346 92
2	Thursday, ...	6,146 29	118 20
3	Saturday, ...	5,541 95	106 58
4	Tuesday, ...	4,824 80	92 79
5	Wednesday, ...	4,644 90	87 64
6	Friday, ...	3,838 88	73 82
7	Monday, ...	3,712 81	71 40
		\$46,758 32	

While no permanent improvement of any kind has been done, yet in the past year the expenses have been increased by a general repair, painting, and putting in order of the various buildings, enclosures, heating apparatus, &c., and also by the shifting of the Society's insurances from temporary into permanent policies.

Within the past few years over two thousand trees and shrubs have been planted in the garden ; of these there are now living—

Deciduous trees, ...	655
Evergreens, ...	860
Shrubs, ...	600

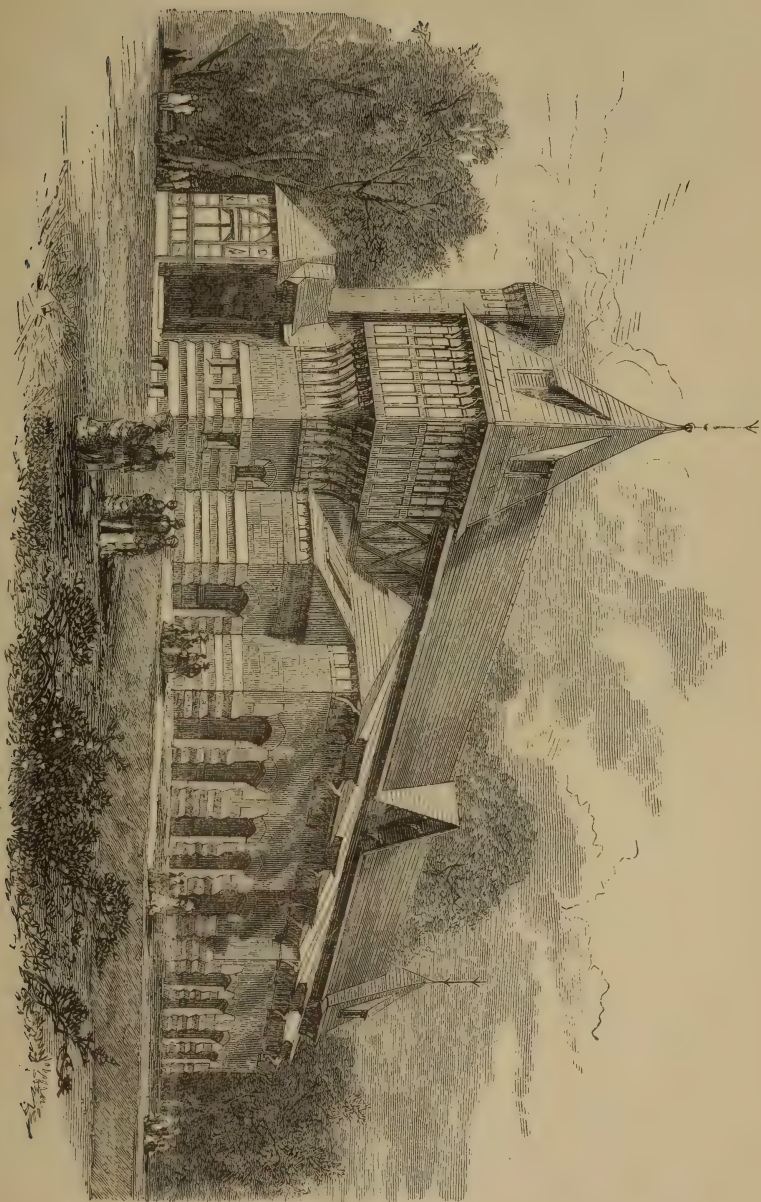
Of these there were planted during the past year—

Deciduous trees, ...	130
Evergreens, ...	160

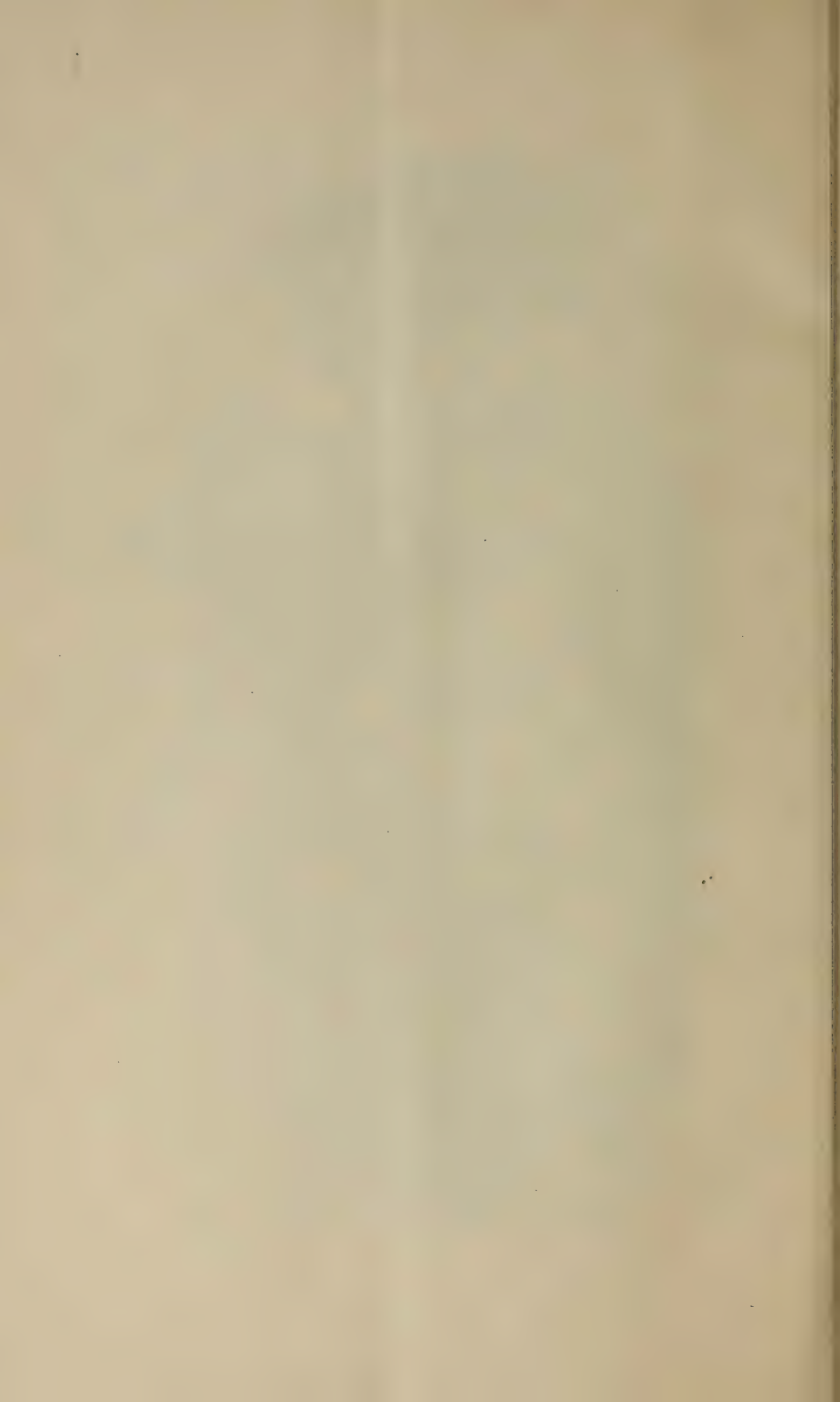
FINANCES.

The financial condition of the Society is shown by the following figures, and the Treasurer's statement and balance-sheet, Appendix A.





ELEPHANT HOUSE.



INCOME AND EXPENDITURES.

For the fiscal year ending March 1st, 1883.

INCOME.

Members' initiation fees and dues, ...	\$635 00	
Admission receipts, ...	46,758 32	
Rents at Garden, ...	1,600 00	
Interest on bank account, ...	9 17	
Sundry receipts, ...	951 86	
Sale of Guides, ...	208 50	
		<u>\$50,162 85</u>

EXPENDITURES.

(Exclusive of Permanent Improvements, &c.)

Salaries and wages, ...	\$18,681 26	
Office expenses, ...	335 73	
General expenses, ...	23,697 53	
		\$42,714 52
Estimated loss and depreciation on animals, . . .	4,536 59	
Balance to credit of profit and loss for year, .	2,911 74	
		<u>\$50,162 85</u>

CAPITAL.

Receipts and expenditures for the year ending March 1st, 1883.

RECEIPTS.

Sales of animals, ...	\$135 00	
Add the following amount charged to profit and loss for estimated loss and depreciation on animals, ...	4,536 59	
		<u>\$4,571 59</u>

EXPENDITURES.

Permanent improvements and animals as per items in Treasurer's statement (Appendix A),	\$9,712 81	
Balance (being excess of investments over receipts of capital and provided from Profit and Loss), .	5,141 22	
		<u>\$4,571 59</u>

MENAGERIE.

THE condition of the Menagerie, and the incidents attending the operation of the Garden during the past year, will be found fully set forth in the report of the General Superintendent, Appendix B.

The continued kindness of the many friends of the Society in all parts of the country claims its thanks.

By order of the Board,

JOHN SAMUEL,
Secretary.

APPENDIX A.

TREASURER'S STATEMENT.

From March 1st, 1882, to March 1st, 1883.

DR.

To Balance, March 1st, 1882, ...	\$6,538 34
" Sales of animals, ...	135 00
" Members' fees and dues, ...	\$635 00
" Admission receipts, ...	46,758 32
" Rents at Garden, ...	1,600 00
" Interest on bank account, ...	9 17
" Sundry receipts, ...	951 86
" Sale of Guides, ...	208 50
Transferred to credit of profit and loss, ...	50,162 85
	<u>\$56,836 19</u>

CR.

By warrants paid for—	
Salaries and wages, ...	\$18,681 26
Office expenses, ...	335 73
Subsistence, ...	9,611 24
Advertising, ...	2,035 95
Insurance, ...	1,193 17
Fuel and lights, ...	1,795 70
Printing, ...	361 20
Expressage, ...	57 32
Repairs, ...	2,900 49
Extra labor and jobbing, ...	1,009 79
Hardware and tools, ...	346 05
Lumber, ...	426 55
Water rent, ...	1,000 00
Uniforms and equipment, ...	132 00
Damages and legal costs, ...	1,669 32
Music, ...	525 00
Sundry expenses, ...	633 75
Transferred to debit of profit and loss, ...	\$42,714 52
Amount carried forward, ...	<u>\$42,714 52</u>

Amount brought forward, ...	\$42,714 52
Purchase of animals, ...	\$3,996 59
Vulcanite walks, ...	442 47
New aviary (balance), ...	3,017 15
Water supply and drains, ...	148 49
Deer parks and enclosures, ...	1,613 75
Houses for sundry animals, ...	211 90
Walks, roads, and grading, ...	45 00
Horticulture, ...	237 46
Total permanent improvements and animals, ...	9,712 81
Balance on hand March 1st, 1883, ...	4,408 86
\$56,836 19	

WILLIAM HACKER,
Treasurer.

Examined and found correct.

COMMITTEE ON AUDIT,

F. T. FASSITT, *Chairman.*



BALANCE SHEET.

Dr.

Zoological Society, March 1st, 1883.

Cr.

Cash, ...	\$ 4,408 86	Loan, ...	\$320,000 00
Water supply and drains, ...	11,493 37	Donations, ...	11,855 74
Aviaries, ...	9,744 19	Life members' account, ...	9,685 00
Bear pits, ...	6,966 82	Permanent fund, ...	475 00
Monkey house, ...	7,926 80	Profit and loss, ...	85,435 59
Cages, ...	4,712 38		
Animal account, ...	44,711 00		
Fencing, ...	5,323 75		
Vulcanite walks, ...	36,615 01		
Deer parks and enclosures, ...	5,322 31		
Prairie-dog village, ...	890 64		
Gate houses, ...	11,705 21		
Buffalo house, ...	1,494 15		
Horticulture, ...	6,543 61		
Lake, ...	10,447 50		
Walks, roads and grading, ...	71,938 37		
Houses for sundry animals, ...	6,734 16		
Carnivora house, ...	55,638 48		
Green houses, ...	4,622 47		
Skating house, ...	1,309 49		
Barn, ...	3,557 12		
Elephant house, ...	40,672 08		
Seal ponds, ...	4,999 73		
Carriage sheds, ...	3,874 86		
Restaurant, ...	14,341 96		
Settees and chairs, ...	2,124 00		
Photograph stand, ...	699 20		
New aviary, ...	12,525 75		
Deer house, ...	20,624 71		
Reptile house, ...	1,659 00		
Camel house, ...	886 82		
Music stand, ...	1,583 65		
Permanent enclosure, ...	9,150 84		
Yard and storage room, ...	2,203 04		

\$427,451 33

\$427,451 33

APPENDIX B.

To the Board of Directors of the Zoological Society,

GENTLEMEN:—I have the honor to present to you my report of the condition of the Garden during the year ending on the twenty-eighth of February, 1883.

During that period 423 living specimens were added to the collection; their character, and the manner of their receipt, being as follows:—

MAMMALS:—

Purchased, ...	78
Presented, ...	54
Born, ...	25
	— 157

BIRDS:—

Purchased, ...	53
Presented, ...	99
Born, ...	24
	— 176

REPTILES AND BATRACHIANS:—

Purchased, ...	7
Presented, ...	48
Born, ...	35
	— 90

423

The number of specimens in the Garden at the present time, with their valuation, is:—

306 Mammals, valued at	\$38,366
338 Birds, “ “	6,054
43 Reptiles and Batrachians, valued at	291
<u>687</u>	<u>\$44,711</u>

Many of the additions to the collection are worthy of special note, among which are the following :—

1. The last of the two female leopards, purchased by the Society in May, 1874, having died from old age, two remarkably fine young females, from Africa, were procured on March 3d. At the same time a pair of European roe deer (*Cervus capreolus*) were also received.

2. A specimen of the crowned crane (*Balaerica regulorum*), from South Africa, was received March 4th, being the first of these beautiful birds in the possession of the Society.

3. A large siren (*Siren lacertina*) was presented on March 8th by Dr. G. E. Manigault, of South Carolina, and arrived in good condition. Although these curious batrachians endure captivity well, it seems impossible to exhibit them in a satisfactory manner. The necessities of their life require them to be buried in several inches of soft mud, which obscures the water as soon as they begin to move, and they are generally hidden from view.

4. On the 1st of April, a pair each of the magnificent Reeves' pheasant (*Phasianus reevesi*) and Japanese pheasant (*P. versicolor*) were purchased from a dealer in New York. These birds were bred in the Zoological Garden at Antwerp, and have added largely to the attractions of our collection.

5. A small fox, from Yucatan, was presented on the 7th of April by Dr. A. K. Owen, of Chester, Pa., and was subsequently identified as the coast fox (*Vulpes littoralis*). This rare species is the smallest of American foxes, and ranges from lower California, apparently through Mexico and Central America. This specimen is probably the first to be exhibited in a living state.

6. A Musang paradoxure (*Paradoxurus musanga*) was received by presentation on May 26th. This animal, although a native of the Malayan Islands, was captured in Brazil, near Rio de Janeiro, and was, without doubt, an escaped pet.

7. A number of animals, directly from Nubia, were purchased from a dealer and arrived at the Garden on June 13th. Among them were a fine young lion and lioness

about eighteen months old; a splendid male ostrich, to mate the two females previously in the collection; two African civets (*Viverra civetta*); two common genets (*Genetta vulgaris*), and an Egyptian ichneumon (*Herpestes ichneumon*).

8. Three rare and interesting monkeys from South America were procured on June 14th:—The Chuva spider monkey (*Ateles marginatus*); the brown howler (*Myctes fuscus*); and the black saki (*Pithecia satanas*). Two very large pig-tailed macaques (*M. nemestrinus*) were received on the same date.

9. A tortoise was presented on June 29th. The locality from whence it came was unknown, but it appears to be (*Testudo tabulata*), a Brazilian species.

10. A brown-headed parrot (*Pœcephalus fuscicapillus*), from Sierra Leone, was purchased July 8th.

11. On July 11th, a fine specimen of the two-toed sloth was received from Panama and has thriven remarkably well, in view of the difficulty commonly experienced in keeping these animals in captivity. It is thought to be (*Cholopus hoffmanni*), a different species from those previously in the collection,—this can not, however, be fully determined until the death of the animal.

12. Several specimens of the ruff (*Machetes pugnax*) and lapwing (*Vanellus cristatus*), from Europe, were received on the 25th of July, and at the same time two pairs of Australian and crowned cranes.

13. On August 21st, two young female chimpanzees were purchased from a dealer in New York, and have proved exceedingly attractive to visitors, as was the case with those previously owned by the Society. The possession of these animals has afforded for comparison the interesting spectacle of specimens of the two best known of the anthropoid apes, the chimpanzee and the orang, side by side in the same cage. Unfortunately, "Topsy," the female of the latter species, which had been in the Garden since October 2d, 1879, died in January of the present year.

14. Several specimens of a rather rare species of horned lizard (*Phrynosoma douglassi*) were brought from the Bad

Lands of Wyoming, and presented by Dr. J. G. Lee, in October.

15. A grey ichneumon (*Herpestes griseus*) was purchased December 7th from a trading vessel from the West Indies. Although a native of India, this animal has been recently introduced into Jamaica for the purpose of destroying the large number of rats which cause great injury to the sugar cane grown in that island. They have increased largely in numbers and appear to have become thoroughly naturalized.

16. On December 19th, a specimen of the tayra (*Galictis barbara*), an interesting little animal of the musteline type, from Brazil, was received by presentation.

17. Quite an assortment of animals were purchased on January 19th, among which were two members of the curious group of lemurs, the brown-headed lemur (*Lemur brunneus*) and the ring-tailed lemur (*L. catta*), from Madagascar; a cariamia crane (*Cariama cristata*) and an Ariel toucan (*Ramphastos ariel*), both from Brazil.

A list of the animals for the first time placed on exhibition in the Garden, with their habitat, is given below.

MAMMALIA.

Brown Howling Monkey (*Myctes fuscus*). Hab. Brazil.

Black Saki (*Pithecia satanas*). Hab. Brazil.

Ring-tailed Lemur (*Lemur catta*). Hab. Madagascar.

Brown-headed Lemur (*Lemur brunneus*). Hab. Madagascar.

African Civet (*Viverra civetta*). Hab. North Africa.

Common Genet (*Genetta vulgaris*). Hab. Southern Europe and North Africa.

Egyptian Ichneumon (*Herpestes ichneumon*). Hab. North Africa.

Tayra (*Galictis barbara*). Hab. Brazil.

Coast Fox (*Vulpes littoralis*). Hab. Lower California to Yucatan.

Roe Deer (*Cervus capreolus*). Hab. Europe.

AVES.

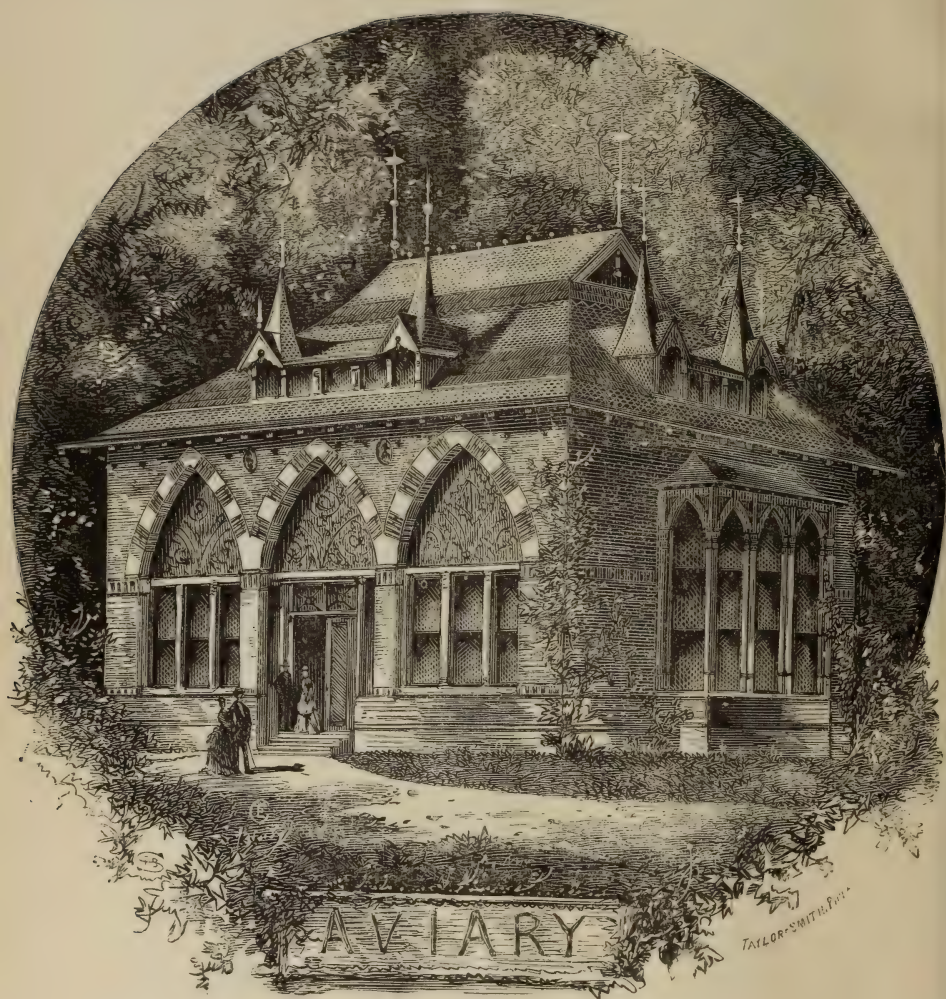
- Yellow-bellied Songster (*Liothrix luteus*). Hab. China and India.
- Long-billed Marsh Wren (*Telmatodytes palustris*). Hab. North America.
- Pine Grosbeak (*Pinicola enucleator*). Hab. Northern North America.
- African Silver Bill (*Munia cantans*). Hab. North-east Africa.
- Ariel Toucan (*Ramphastos ariel*). Hab. Brazil.
- Gray-headed Love Bird (*Agapornis cana*). Hab. Madagascar.
- Brown-headed Parrot (*Pœcephalus fuscicapillus*). Hab. West Africa.
- White-winged Dove (*Melopeleia leucoptera*). Hab. South-western United States and Mexico.
- Scaly Ground Dove (*Scardafella squamosa*). Hab. Mexico.
- Reeves' Pheasant (*Phasianus reevesi*). Hab. China.
- Japanese Pheasant (*Phasianus versicolor*). Hab. Japan.
- Common Lapwing (*Vanellus cristatus*). Hab. Europe and Asia.
- Ruff (*Machetes pugnax*). Hab. Europe and Asia.
- Cape Crowned Crane (*Balaerica regulorum*). Hab. South Africa.
- Cariama Crane (*Cariama cristata*). Hab. Brazil.
- Bernicle Goose (*Bernicla leucopsis*). Hab. Europe.

REPTILIA.

- Water Snake (*Tropidonotus taxispilotus*). Hab. North Carolina to Florida.

The following animals were bred in the Garden during the year :

- 1 Macaque Monkey (*Macacus cynomolgus*.)
- 6 Dingos (*Canis dingo*.)
- 2 Bactrian Camels (*Camelus bactrianus*.)



- 1 Collared Peccary (*Dicotyles torquatus*).
- 1 Bison (*Bison americanus*).
- 2 Zebus (*Bos indicus*).
- 1 Eland (*Oreas canna*).
- 3 Common Deer (*Cervus virginianus*).
- 1 Fallow Deer (*C. dama*).
- 2 Wapiti (*C. canadensis*).
- 4 Woodchucks (*Arctomys monax*).
- 1 Wallaby (hybrid between *Halmaturus bennetti* ♂ and
H. ualabatus ♀).
- 4 Turtle Doves (*Turtur risorius*).
- 1 Pea Fowl (*Pavo cristata*).
- 6 California Quail (*Lophortyx californianus*).
- 35 Water Snakes (*Tropidonotus fasciatus*).

Comparatively little new work has been done during the period covered by my report, although extensive repairs to buildings and enclosures have been made.

The asphalt walks around the seal ponds and the new aviary have been completed; the rustic fence around the deer park, which had become worn out and unsafe, has been removed and in its place a light but substantial iron railing has been erected; durable bark roofs have been put on the shelters in the deer park and the cattle pens in place of the thatch which previously covered them; the two wings of the Carnivora House have been greatly improved by the placing of large skylights in the roof, and the buildings and out-door enclosures have been generally repainted. A large number of trees have been planted throughout the Garden, a work which will be continued during the coming spring.

The usual list of animals received is submitted herewith.

Respectfully,

ARTHUR ERWIN BROWN,

General Superintendent.

ZOOLOGICAL GARDEN, March 1st, 1883.

APPENDIX C.

LIST OF ADDITIONS TO THE MENAGERIE DURING THE YEAR ENDING FEBRUARY 28th, 1883.

1882.

- March-2. 1 Raccoon (*Procyon lotor*). Presented by Henry Bessey, Philadelphia.
 1 Black Duck (*Anas obscura*).
 1 American Widgeon (*Mareca americana*). ♀
 1 Wild Cat (*Lynx rufus*).
 3. 2 Leopards (*Felis pardus*). ♀ ♀
 2 Roe Deer (*Cervus capreolus*). ♂ ♀
 4. 1 Cape Crowned Crane (*Balearica regulorum*).
 7. 3 Red-headed Ducks (*Fuligula ferina*). ♂ ♀ ♀
 1 American Widgeon (*Mareca americana*). Purchased.
 8. 1 Ring Dove (*Turtur risorius*). Presented by Charles G. Bonsall, Philadelphia.
 1 Siren (*Siren lacertina*). Presented by Dr. G. E. Manigault, Charleston, S. C.
 10. 1 Eland (*Oreas canna*). Born in the Garden.
 6 Cardinal Red Birds (*Cardinalis virginianus*).
 3 Red-crested Cardinals (*Paroaria cucullata*).
 2 Bullfinches (*Pyrrhula rubicilla*). ♀ ♀
 2 Java Sparrows (*Padda oryzivora*).
 2 Scaly Ground Doves (*Scardafella squamosa*).
 6 Gray-headed Love Birds (*Agapornis cana*).
 11. 1 Ruddy Duck (*Erismatura rubida*).
 1 American Widgeon (*Mareca americana*).
 13. 1 Big Black-headed Duck (*Fuligula marila*). ♀
 14. 1 Canvas-back Duck (*Fuligula vallisneria*). ♂
 1 Pintail Duck (*Dafila acuta*). ♀
 15. 1 Mallard Duck (*Anas boschas*). ♂
 1 Black Duck (*Anas obscura*).
 2 Red-headed Ducks (*Fuligula ferina*). ♀ ♀. Purchased.
 23. 1 Screech Owl (*Scops asio*). Presented by Isaac Reiff, Philadelphia.
 24. 2 Black Ducks (*Anas obscura*).
 April 1. 2 Reeve's Pheasants (*Phasianus reevesi*). ♂ ♀
 2 Japanese Pheasants (*Phasianus versicolor*). ♂ ♀. Purchased.
 6. 1 Raccoon (*Procyon lotor*). Presented by Charles Venner, Philadelphia.
 7. 1 Coast Fox (*Vulpes littoralis*). Presented by A. K. Owen, Chester, Pa.
 10. 1 Common Rabbit. Presented by Mrs. Clineburger, Philadelphia.
 11. 4 Valley Quail (*Lophortyx californianus*). ♂ ♂ ♀ ♀. Presented by James P. Scott, Philadelphia.

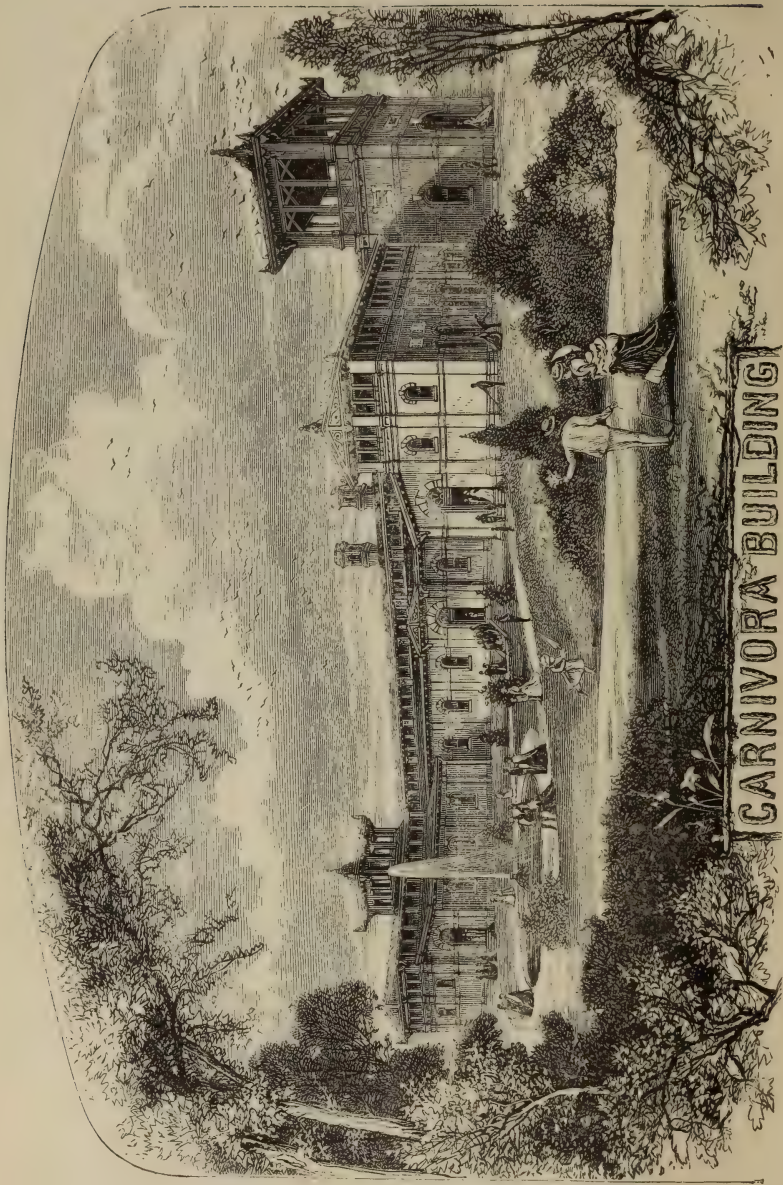


1882.

- April 13. 1 Cooper's Hawk (*Accipiter cooperi*). Presented by George W. Hunter, Philadelphia.
15. 1 Common Rabbit. Presented by M. J. Lukens, Philadelphia.
- 1 African Silver-bill (*Munia cantans*). Presented by Miss Alice Grant, Philadelphia.
16. 1 Zebu (*Bos indicus*). ♂. Born in the Garden.
18. 1 Horned Lizard (*Phrynosoma cornutum*). Presented by W. H. Brooks, Philadelphia.
20. 1 Alligator (*Alligator mississippiensis*). Presented by Charles Begley, Philadelphia.
21. 1 White Pelican (*Pelecanus trachyrhynchus*).
1 Golden Eagle (*Aquila chrysaetos*). Purchased.
24. 1 Patas Monkey (*Cercopithecus ruber*). Presented by Mrs. W. H. Green, Philadelphia.
25. 1 Chinese Goose (*Anser cygnoides*). Purchased.
26. 1 Collared Peccary (*Dicotyles torquatus*). Born in the Garden.
4 Bernicle Geese (*Bernicla leucopsis*). Purchased.
27. 1 Buffalo (*Bison americanus*). Born in the Garden.
30. 2 Horned Lizards (*Phrynosoma cornutum*). Presented by Charles M. Marot, Philadelphia.
- May 1. 1 Alligator (*Alligator mississippiensis*). Presented by M. C. Stafford, Philadelphia.
2. 1 Horned Lizard (*Phrynosoma cornutum*). Presented by W. L. Landreth, Philadelphia.
3. 1 Crow (*Corvus americanus*). Presented by J. C. Saltar, Pemberton, N. J.
1 Alligator (*Alligator mississippiensis*). Presented by E. G. Ogden, Philadelphia.
8. 1 Great Horned Owl (*Bubo virginianus*). Presented by Louis Ewers, Philadelphia.
2 Black Vultures (*Cathartes atratus*). Presented by Dr. G. E. Manigault, Charleston, S. C.
9. 1 Alligator (*Alligator mississippiensis*). Presented by Richard French, Philadelphia.
12. 1 Coot (*Fulica americana*). Purchased.
13. 1 Clapper Rail (*Rallus longirostris*). Presented by M. Goldsmith, Camden, N. J.
16. 2 Bactrian Camels (*Camelus bactrianus*). Born in the Garden.
18. 1 Horned Lizard (*Phrynosoma cornutum*). Presented by John Pearsall, Philadelphia.
20. 4 Woodchucks (*Arctomys monax*). Born in the Garden.
1 Alligator (*Alligator mississippiensis*). Presented by Crosby M. Brown, Philadelphia.
21. 1 Raccoon (*Procyon lotor*). Presented by G. W. Jamison, Hartsville, Pa.
1 Alligator (*Alligator mississippiensis*). Presented by Mrs. Mary E. Gillies, Philadelphia.
- 1 Bald Eagle (*Haliaeetus leucocephalus*). Presented by Robt. E. Ridgway, Washington, D. C.
- 1 Opossum and 5 young (*Didelphys virginiana*). Presented by Geo. Bozby, Haddonfield, N. J.

1882.

- May 24. 1 Gray Squirrel (*Sciurus carolinensis*). Presented by A. H. Haeker
Germantown, Philadelphia.
25. 1 Screech Owl (*Scops asio*). Presented by Thos. Sollers, Camden, N. J.
1 Loon (*Colymbus torquatus*).
26. 14 Prairie Dogs (*Cynomys ludovicianus*). Purchased.
1 Musang Paradoxure (*Paradoxurus musanga*). Presented by Capt.
Samuel Hess, Camden, N. J.
27. 1 Canada Goose (*Bernicla canadensis*).
29. 2 Garter Snakes (*Eutœnia sirtalis*). Presented by John Pearsall.
- June 3. 1 Turtle Dove (*Turtur risorius*). Born in the Garden.
1 Gray Squirrel (*Sciurus carolinensis*). Presented.
5. 1 White Heron (*Ardea egretta*). Presented by F. Theo. Karsch, Jack-
sonville, Fla.
6. 1 Great Horned Owl. (*Bubo virginianus*). Presented.
1 Virginia Deer. (*Cervus virginianus*).
8. 1 Fallow Deer (*Cervus dama*). ♂
9. 1 Elk (*Cervus canadensis*). ♀ Born in the garden.
10. 1 Garter Snake (*Eutœnia sirtalis*). Presented by Joseph S. Hall,
Philadelphia.
11. 1 Turtle Dove (*Turtur risorius*). Presented by George W. English,
Philadelphia.
12. 1 Turkey Buzzard (*Cathartes aura*). Presented by George Kehoe,
Philadelphia.
1 Ocelot (*Felis pardalis*). Presented.
13. 1 Ostrich (*Struthio camelus*). ♂
2 African Civets (*Viverra civetta*).
2 Common Genets (*Genetta vulgaris*).
1 Egyptian Ichneumon (*Herpestes ichneumon*).
2 Swainson's Lorikeets (*Tricoglossus novæ-hollandiæ*).
2 Lions (*Felis leo*). ♂ ♀
14. 1 Chuva Spider Monkey (*Ateles marginatus*).
1 Brown Howler (*Mycetes fuscus*).
1 Black Saki (*Pithecia satanas*). ♂ ♂
2 Pig-tailed Macaques (*Macacus nemestrinus*). Purchased.
2 Alligators (*Alligator mississippiensis*). Presented by Masters J. S.
and W. K. Auchincloss and Miss Jane Auchincloss, Philadelphia.
15. 1 Great-horned Owl (*Bubo virginianus*). Presented by S. W. Da Costa,
Philadelphia.
2 Bald Eagles (*Haliæetus leucocephalus*). Presented by Mrs. D. S. Gen-
dell, Philadelphia.
17. 1 Diamond Rattlesnake (*Crotalus adamanteus*). Presented by Dr. J. F.
Holt, Philadelphia.
1 Diamond Rattlesnake (*Crotalus adamanteus*). Presented by Smith-
sonian Institution, Washington, D. C.
2 Pea Fowls (*Pavo cristata*). ♀ ♀ Presented by Paul Wootten, Ham-
monton, N. J.
4 Alligators (*Alligator mississippiensis*). Presented by F. Pulaski, Phila-
delphia.
23. 1 Virginia Deer (*Cervus virginianus*). Born in the Garden.



1882.

- June 24. 1 Mocking Bird (*Turdus polyglottus*). ♀ Presented by George Schenck, Philadelphia.
 1 Pea Fowl (*Pavo cristata*). ♀ Presented by John Leo, Philadelphia.
 1 Opossum (*Didelphys virginiana*). Presented.
 1 Sparrow Hawk (*Falco sparverius*). Presented by Isaac Reiff, Philadelphia.
27. 1 Horned Lizard (*Phrynosoma cornuta*). Presented by Joseph S. Hall, Philadelphia.
29. 1 Brazilian Tortoise (*Testuda tabulata*). Presented by Captain Samuel Hess, Camden, N. J.
30. 1 Alligator (*Alligator mississippiensis*). Presented by Thomas H. Ewing, Philadelphia.
- July 1. Chain Snake (*Ophibolus doliatus triangulus*). Presented by Archibald Aitken, Philadelphia.
4. 1 Macaque Monkey (*Macacus cynomolgus*). Born in the Garden.
7. 1 Red Fox (*Vulpes fulvus*). Presented by Philip T. Penrose, Philadelphia.
8. 2 Gray Parrots (*Psittacus erythacus*).
 2 Brown-headed Parrots (*Pæocephalus fuscicapillus*). Purchased.
9. 1 Swamp Sparrow (*Melospiza palustris*).
 1 Long-billed Marsh Wren (*Telmatodytes palustris*). Presented by Isaac Reiff, Philadelphia.
10. 1 Pea Fowl (*Pavo cristata*). ♀
 2 Carolina Doves (*Zenaidura carolinensis*). Presented by Albert Bartram Kelley, Philadelphia.
11. 1 Sparrow Hawk (*Falco sparverius*). Presented by Judge Bell, Jacksonville, Fla.
 1 Two-toed Sloth (*Cholopus didactylus*). Purchased.
14. 1 Ring Dove (*Turtur risorius*). Presented by Miss McCurdy, Philadelphia.
 1 Opossum (*Didelphys virginiana*). Presented by Samuel Welsh, Jr., Germantown, Phila.
 9 Muscovy Ducks.
17. 1 Virginia Deer (*Cervus virginianus*). Born in the Garden.
21. 1 Siskin (*Chrysomitris spinus*). Presented by Isaac Reiff, Philadelphia.
 1 Horned Lizard (*Phrynosoma cornuta*). Presented by Mrs. J. H. Campbell, Philadelphia.
24. 1 Prong-horned Antelope (*Antilocapra americana*). ♀. Presented by Samuel A. Crozer, Upland, Pa.
25. 2 Fox Squirrels (*Sciurus niger*).
 2 Australian Cranes (*Grus australasiana*).
 2 Crowned Cranes (*Balearica regulorum*).
 1 Flamingo (*Phoenicopterus ruber*).
 6 Ruffs (*Machetes pugnax*).
 1 Lapwing (*Vanellus cristatus*).
29. 5 White-fronted Parrots (*Chrysotis leucocephalus*). Purchased.
 2 Scaly Ground Doves (*Scardafella squamosa*). Purchased.
- Aug. 1. 1 Iguana (*Iguana tuberculata*). Presented.
 2 Marmosets (*Hapale jacchus*). Purchased.

1882.

- Aug. 7. 1 Pine Grosbeak (*Pinicola enucleator*). ♀ Presented by Samuel H. Johnson, Philadelphia.
10. 2 Indigo Birds (*Cyanospiza cyanea*). Presented by Isaac Reiff, Philadelphia.
11. 1 Pea Fowl (*Pavo cristata*). Born in the Garden.
14. 1 Opossum (*Didelphys virginiana*). Presented.
15. 6 Red Foxes (*Vulpes fulvus*). Presented by H. K. Trask, Bridgeton, N. J.
19. 1 Gray Squirrel (*Sciurus carolinensis*). Presented by Mrs. Pendleton, Philadelphia.
21. 2 Chimpanzees (*Troglodytes niger*). ♀ ♀ Purchased.
22. 1 Prairie Wolf (*Canis latrans*). ♀ Presented by Mrs. Clauder, Philadelphia.
23. 1 Alligator (*Alligator mississippiensis*). Presented by George M. Hess, Philadelphia.
- 1 Woodcock (*Philohela minor*). Presented by Edward Maher, Philadelphia.
- Sept. 4. 1 Red Fox (*Vulpes fulvus*). Presented by Charles Morris, Philadelphia.
- 1 Snake. Presented by Hon. M. S. Quay, Philadelphia.
17. 1 Turtle Dove (*Turtur risorius*). Born in the Garden.
21. 1 Raccoon (*Procyon lotor*). Presented by Matthew Marony, Philadelphia.
23. 35 Water Snakes (*Tropidonotus sipedon*). Born in the Garden.
27. 2 Seals (*Phoca vitulina*).
- 1 Whistling Swan (*Cygnus americanus*). Purchased.
- Oct. 4. 2 Horned Lizards (*Phrynosoma douglassi*). Presented by Dr. J. G. Lee, Philadelphia.
5. 1 Northern Fox Squirrel (*Sciurus niger cinereus*). Presented by Mrs. Samuel Welsh, Jr., Philadelphia.
- 2 Prairie Dogs (*Cynomys ludovicianus*). Presented by Robert Sterrett, Milroy, Pa.
8. 1 Wood Thrush (*Turdus mustelinus*). Presented by Isaac Reiff, Philadelphia.
9. 4 Muscovy Ducks. Born in the Garden.
12. 1 Barn Owl (*Strix flammea*). Presented by Gen. John Gibbon, U. S. A.
13. 1 Red Fox (*Vulpes fulvus*). Presented by Isaac W. Worrall, Philadelphia.
17. 2 Ring Doves (*Turtur risorius*). Born in the Garden.
19. 1 Red-winged Blackbird (*Agelaius phoeniceus*). Presented by A. D. Shull, Philadelphia.
22. 1 Great-horned Owl (*Bubo virginianus*). Presented by G. H. Thompson, Philadelphia.
23. 1 Cebus.
25. 3 Skunks (*Mephitis mephitis*).
- 5 Rattlesnakes (*Crotalus horridus*). Purchased.
30. 2 Reed Birds (*Dolychonyx oryzivorus*). Presented by John Pearsall, Philadelphia.
31. 1 Tufted Duck. Purchased.

1882.

- Nov. 2. 1 Reed Bird (*Dolichonyx oryzivorus*). Presented by Joseph S. Hall, Philadelphia.
3. 1 American Widgeon (*Mareca americana*). Presented.
6. 1 Elk (*Cervus canadensis*).
8. 1 Zebu (*Bos indicus*). Born in the Garden.
14. 1 Red-tailed Hawk (*Buteo borealis*). Presented.
15. 1 Herring Gull (*Larus argentatus*). Presented by Captain Williams, Philadelphia.
- 1 Poreupine (*Erethizon dorsatus*). Presented by Donald McDonald, Williamsport, Pa.
18. 1 Alligator (*Alligator mississippiensis*). Presented by A. R. Beck, Lititz, Pa.
20. 1 Black-handed Spider Monkey (*Ateles melanochir*). Presented by Prof. E. D. Cope, Philadelphia.
21. 1 Opossum (*Didelphys virginiana*). Presented by C. A. Kershaw, Philadelphia.
22. 1 Pine Snake (*Pityophis menanoleucus*). Purchased.
- 1 Screech Owl (*Scops asio*). Presented by Serg't. Abrams, Sedgeley, Philadelphia.
- 1 Barred Owl (*Syrnium nebulosum*). Presented by Andrew Rudolph, Philadelphia.
25. 1 Alligator (*Alligator mississippiensis*). Presented by Miss Jessie Tomlinson, Philadelphia.
29. 3 Red-headed Ducks (*Fuligula ferina*). ♂♂♀ Purchased,
- Dec. 4. 1 Opossum (*Didelphys virginiana*). Presented by W. S. Sloan, Claymont, Delaware.
5. 3 Water Snakes (*Tropidonotus fasciatus*). Presented by Dr. S. Weir Mitchell, Philadelphia.
7. 1 Black Bear (*Ursus americanus*). Presented by Mrs. James Gardener, Augusta, Georgia.
- 1 Gray Ichneumon (*Herpestes griseus*). Purchased.
9. 3 Fallow Deer (*Cervus dama*). ♀ Purchased.
- 2 Alligators (*Alligator mississippiensis*). Presented by Dr. A. S. Roberts, Philadelphia.
10. 1 Pied-billed Grebe (*Podilymbus podiceps*). Presented by Martin Fath, Philadelphia.
12. 3 Gray Squirrels (*Sciurus carolinensis*). Presented by E. Melters, Philadelphia.
18. 1 Blue and Yellow Macaw (*Ara ararauna*). Presented by Otto Schaum, Philadelphia.
- 1 Screech Owl (*Scops asio*). Presented by F. B. Leibfreid, Philadelphia.
19. 1 Tayra (*Galictis barbara*). Presented by Miss Harrah, Philadelphia.
24. 1 Opossum (*Didelphys virginiana*). Presented by W. L. Abbott, Philadelphia.
29. 2 White-winged Doves (*Melopeleia leucoptera*). Purchased.
- 2 Key West Doves (*Geotrygon martinica*). Purchased.
30. 2 Quail, (*Ortyx virginianus*). ♂♀ Purchased.

1883.

- Jan. 6. 1 Raccoon (*Procyon lotor*). Presented by J. R. Uberroth, Philadelphia.
- 1 Bald Eagle (*Haliaeetus leucocephalus*). Presented by C. E. Bellows, Bridgeton, N. J.

1883.

- Jan. 6. 1 Wild Cat (*Lynx rufus*). ♂ Presented by Donald McDonald, Williamsport, Pa.
19. 12 Common Macaques (*Macacus cynomolgus*).
 2 Pig-tailed Macaques (*Macacus nemestrinus*).
 1 Rhesus Macaque (*Macacus erythraeus*).
 3 Bonnet Macaques (*Macacus radiatus*).
 5 Green Monkeys (*Cercopithecus callitrichus*).
 1 Red Monkey (*Cercopithecus ruber*).
 1 Spider Monkey (*Ateles geffroyi*).
 1 Ring-tailed Lemur (*Lemur catta*).
 1 Brown-headed Lemur (*Lemur brunneus*).
 1 Cariama Crane (*Cariama cristata*).
 1 Ariel Toucan (*Ramphastos ariel*). Purchased.
21. 2 White-nosed Coatis (*Nasua narica*). Presented by F. B. Colton, Darby, Pa.
 1 Richardson's Spermophile. Presented by Joseph M. Williams, Philadelphia.
22. 2 Screech Owls. (*Scops asio*.) Presented by Geo. E. and H. E. Potts, Philadelphia.
23. 1 Red-tailed Hawk (*Buteo borealis*). Presented.
24. 1 Dingo (*Canis dingo*). Born in the Garden.
25. 1 Wild Cat (*Lynx rufus*). Presented by Donald McDonald, Williamsport, Pa.
27. 1 Black Wallaby (*Halmaturus ualabatus*). Born in the Garden.
29. 1 Spider Monkey (*Ateles melanochir*). Purchased.
- Feb. 3. 1 Lynx (*Lynx canadensis*). Purchased.
12. 1 Brown Capucin (*Cebus fatuellus*). Presented by Robert H. Hare, Philadelphia.
22. 1 Opossum (*Didelphys virginiana*). Presented by Dr. J. F. Holt, Philadelphia.
23. 2 Water Snakes (*Tropidonotus fasciatus*).
 1 Chicken Snake (*Coluber quadrivittatus*). Presented by Dr. E. L. Reikert, Philadelphia.
24. 1 English Blue Jay (*Garrulus glandarius*). Purchased.
 1 Alligator (*Alligator mississippiensis*). Presented by P. A. Reger, Philadelphia.
25. 5 Dingos (*Canis dingo*). Born in the Garden.
27. 1 Large Alligator (*Alligator mississippiensis*). Presented by Dr. Thomas Biddle, Philadelphia.
28. 1 Alligator (*Alligator mississippiensis*). Presented by Dr. H. Neil, Philadelphia.
- 10 Water Snakes (*Tropidonotus fasciatus*). Presented by Dr. E. Reikert, Philadelphia.

